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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/653,221	09/03/2003	Susumu Katagiri	R2184.0088/P088-A	2742

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EXAMINER

MAGEE, CHRISTOPHER R

ART UNIT PAPER NUMBER

2653

DATE MAILED: 09/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/653,221

Applicant(s)

KATAGIRI, SUSUMU

Examiner

Christopher R. Magee

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) 1-19 is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 20-25 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 November 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☒ Certified copies of the priority documents have been received in Application No. 09/722,715.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 9/3/2003.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: ____.

DETAILED ACTION

Priority

1. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. 09/722,715 (now US Patent 6,639,891), filed on November 28,2000.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 20 and 21 are rejected under 35 U.S.C. 102(b) as being anticipated by Lee (US 5,768,248).

- Regarding claim 20, Lee shows an adjustment structure for adjusting a seek mechanism which moves an optical pickup 25 in a radial direction of an optical disk (not shown) on which the optical pickup 25 irradiates a light beam to record and/or reproduce information on and/or from the optical disk, comprising:

- a base body 21 ; and

- a first support mechanism and a second support mechanism 23 respectively provided on the base body 21,

- each of said first and second support mechanisms having a pivot-receiving member 35 or 46, and a pin 23a, 23b having a rounded tip end which engages the pivot-receiving member,

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one of said first and second support mechanisms 23 supporting the optical pickup 25 in a manner movable in a focusing direction of the light beam with respect to the optical disk (Figures 2, 3 and 6).

- Regarding claim 21, Lee shows an optical disc apparatus comprising:

a base body 21;

a spindle motor (provided under turntable 22-not shown), provided on the base body, to rotate an optical disk;

an optical pickup 25 to irradiate a light beam on the optical disk to record and/or reproduce information on and/or from the optical disk;

a seek mechanism, 4 and 8, to move the optical pickup in a radial direction of the optical disk; and an adjustment structure to adjust the seek mechanism, said adjustment structure comprising:

a first support mechanism (i.e., guide rail) and a second support mechanism 23 respectively provided on the base body,

each of said first and second support mechanisms having a pivot-receiving member 35 or 46, and a pin 23a or 23b, having a rounded tip end which engages the pivot-receiving member,

one of said first and second support mechanisms 23 supporting the optical pickup 25 in a manner movable in a focusing direction of the light beam with respect to the optical disk (Figures 2, 3 and 6).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 22 - 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saito et al. (hereinafter Saito) (US 6,137,765) in view of Lee (US 5,768,248).

- Regarding claims 22 and 24, Saito shows an adjustment structure for adjusting a chassis 2 having provided thereon a seek mechanism which moves an optical pickup in a radial direction of an optical disk on which the optical pickup irradiates a light beam to record and/or reproduce information on and/or from the optical disk, comprising:

- a base body 3; and

- at least two support mechanisms (not numbered but shown in Examiner's attached Drawing) respectively supporting the chassis in a manner free to tilt with respect to the base body,

- each of said support mechanisms having a pivot-receiving member 14b, 28, and a pin 13b, 22, respectively, which engages the pivot-receiving member,

- said chassis 2 being supported in a state free to tilt about an imaginary line connecting the first and second support mechanisms (see Examiner's attached Drawing);

- one of said support mechanisms supporting the chassis in a manner such that the chassis is movable in directions towards and away from the base body (Figure 2).

Saito does not teach the pin having a rounded tip.

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Lee shows a pin end, 23b, which is part of support rail 23, with a rounded tip (Figure 6).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the pin of Saito with a rounded tip as taught by Lee.

The rationale is as follows: One of ordinary skill in the art at the time of the invention would have been motivated to provide the pin of Saito with a rounded tip as taught by Lee in order to allow ease of movement while adjusting the tilt of the chassis so that the optical pickup can efficiently record and/or reproduce information on and/or from the optical disk. Additionally, providing a rounded tip to the pin will enhance the manufacturing speed of the optical disk apparatus.

- Regarding claims 23 and 25, Saito shows an optical disk apparatus comprising:
 - a base body 3;
 - a spindle motor 10, provided on the base body 3, to rotate an optical disk (not shown);
 - an optical pickup 5, to irradiate a light beam on the optical disk to record and/or reproduce information on and/or from the optical disk;
 - a chassis 2;
 - a seek mechanism 25, provided on the chassis, to move the optical pickup in a radial direction of the optical disk; and
 - at least two support mechanisms (not numbered but shown in Examiner's attached Drawing) respectively supporting the chassis in a manner free to tilt with respect to the base body,
 - each of said support mechanisms having a 14a, 14b, pivot-receiving member, and a pin 13a, 13b, respectively, which engages the pivot-receiving member,

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said chassis 2 being supported in a state free to tilt about an imaginary line connecting the first and second support mechanisms (see Examiner's attached Drawing);

one of said support mechanisms supporting the chassis in a manner such that the chassis is movable in directions towards and away from the base body (Figure 2).

Saito does not teach the pin having a rounded tip.

Lee shows a pin end, 23b, which is part of support rail 23, with a rounded tip (Figure 6).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the pin of Saito with a rounded tip as taught by Lee.

The rationale is as follows: One of ordinary skill in the art at the time of the invention would have been motivated to provide the pin of Saito with a rounded tip as taught by Lee in order to allow ease of movement while adjusting the tilt of the chassis so that the optical pickup can efficiently record and/or reproduce information on and/or from the optical disk. Additionally, providing a rounded tip to the pin will enhance the manufacturing speed of the optical disk apparatus.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher R. Magee whose telephone number is (703) 605-4256. The examiner can normally be reached on M-F, 8: 00 am-5: 30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Korzuch can be reached on (703) 305-6137. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

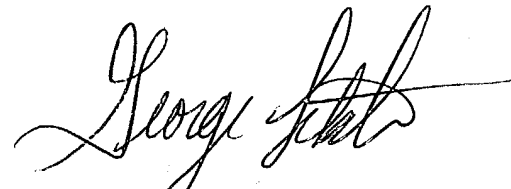
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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Christopher R. Magee
Patent Examiner
Art Unit 2653

September 17, 2004



GEORGE J. LETSCHER
PRIMARY EXAMINER